R	G
G	B

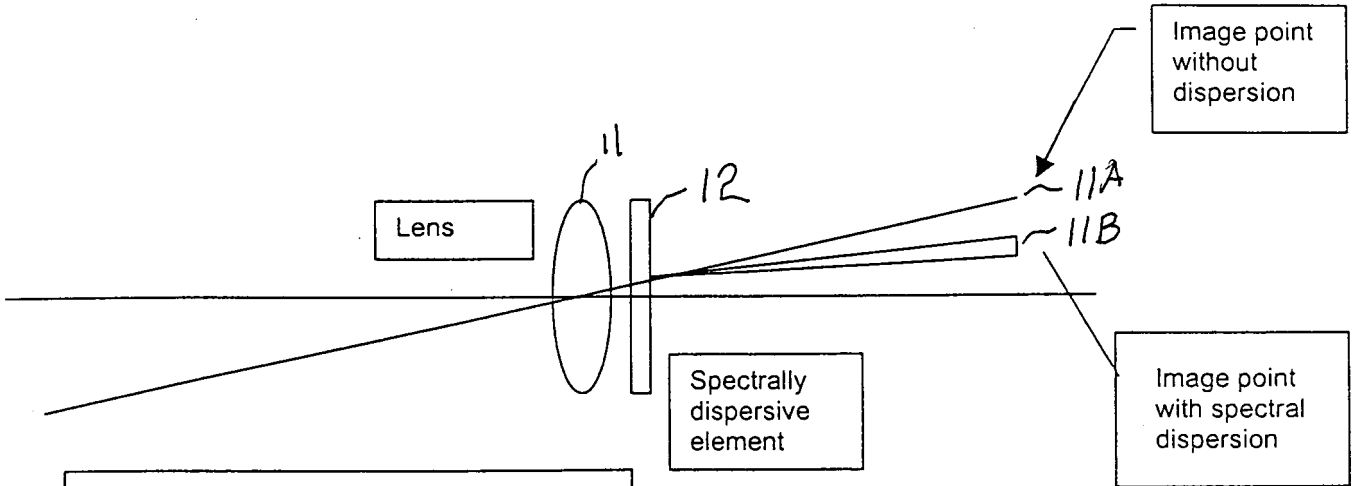Figure 1. Bayer Filter Pattern on CCD

Image point without dispersion

11A

11B

Lens

11

12

Spectrally dispersive element

Image point with spectral dispersion

Figure 2. Spectrally dispersing a single white image point using an optical element

13

R	G
G	B

11B

11

12
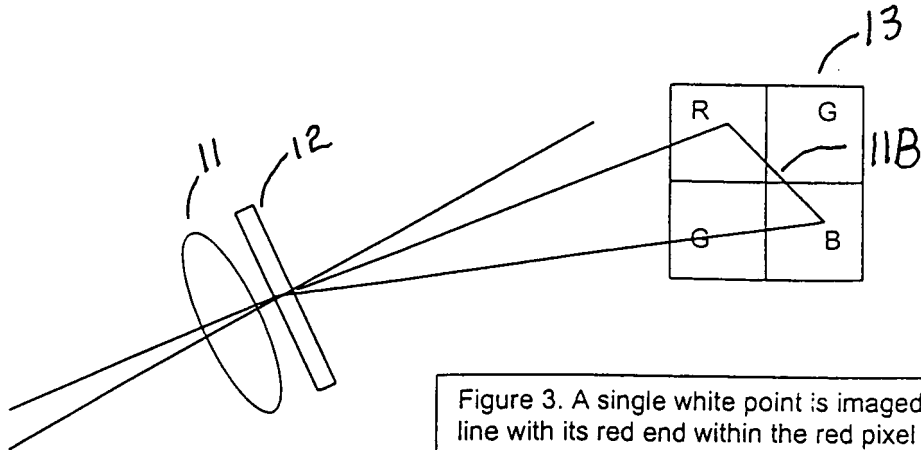
Figure 3. A single white point is imaged as a line with its red end within the red pixel and its blue end within the blue pixel.
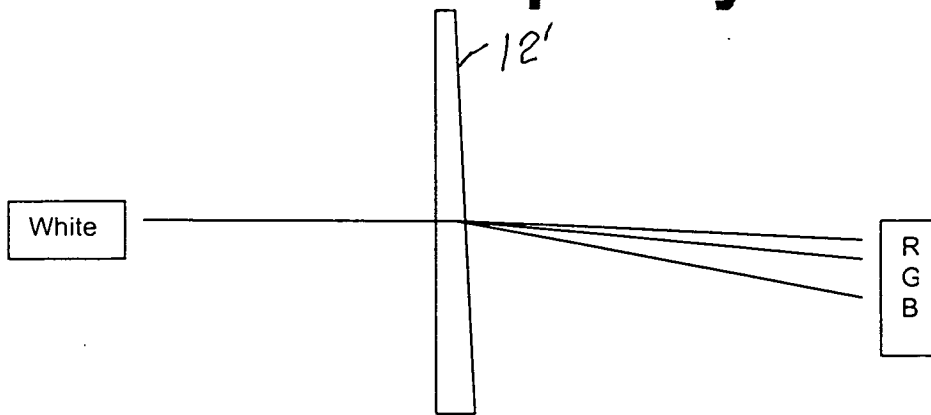
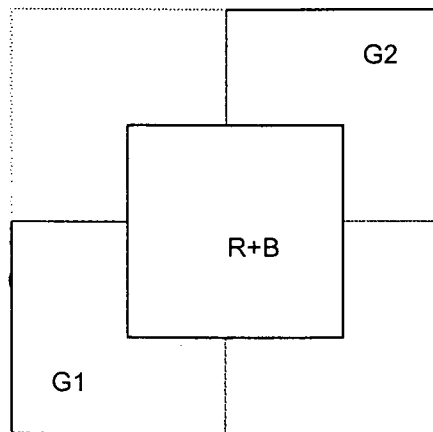Figure 4. Spectral dispersion property of a Plane Non-parallel Plate or "Optical Wedge".

Figure 5. Effective location and color of recorded pixels using dispersive element and Bayer pattern CCD.
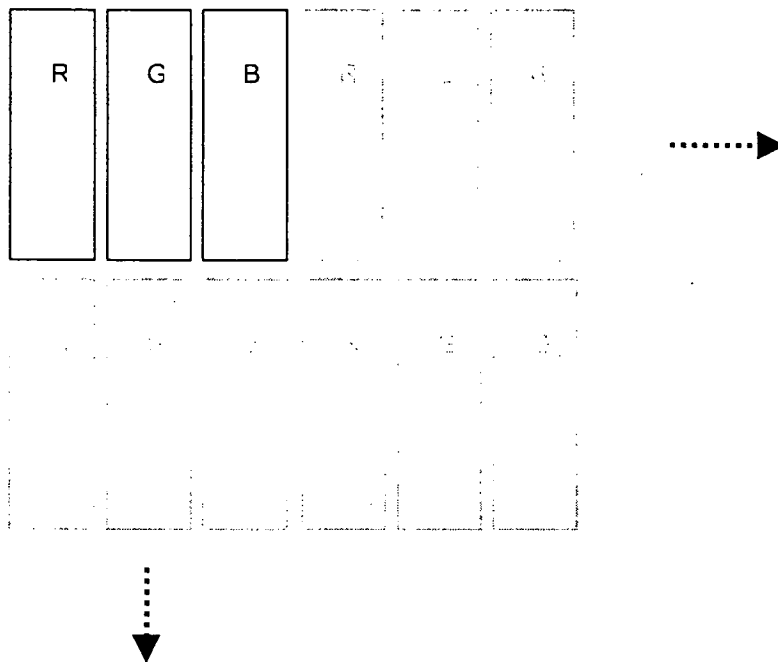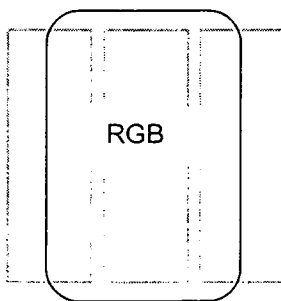
Figure 6. Optimum Tri-stripe Filter Pattern.

Figure 7. Effective location and color of recorded pixels using dispersive element and Optimum pattern CCD. Includes Optical image smear effect in direction of dispersion.